

Query Match 100.0%; Score 1551; DB 4; Length 1551;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1551; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGGATGCTGACGAGGTCAAGACATGCTTTCATCAGGGAAAGGAAGCCCCCTGTA 60
 Db 1 ATGGATGCTGACGAGGTCAAGACATGCTTTCATCAGGGAAAGGAAGCCCCCTGTA 60
 QY 61 AGCGTAACTCCAGATGAGGGATGAGCCCAAGCGATCCTCCAGGACCTCCACACC 120
 Db 61 AGCGTAACTCCAGATGAGGGATGAGCCCAAGCGATCCTCCAGGACCTCCACACC 120
 QY 121 TCGGGAGGACAAAGCTCCAAAGCTGAGACTGCTGCACTAATGTTAAGTAGAG 180
 Db 121 TCGGGAGGACAAAGCTCCAAAGCTGAGACTGCTGCACTAATGTTAAGTAGAG 180
 QY 181 ACTCGAGTGATGAAAGAAATTGGCGTGTGTAATGATGATGGGGAAATAATGTCGGAC 240
 Db 181 ACTCGAGTGATGAAAGAAATTGGCGTGTGTAATGATGATGGGGAAATAATGTCGGAC 240
 QY 241 GATTACGAAATGCTGATGCCCTCGGGAGAGAAAATGAATGCTCCACAGGACCAAGC 300
 Db 241 GATTACGAAATGCTGATGCCCTCGGGAGAGAAAATGAATGCTCCACAGGACCAAGC 300
 QY 301 AGCTCGGGCTTGTGGGAGTTGGAGCTTGGAGCTTGGGGAAAGAATGTGGCGAG 360
 Db 301 AGCTCGGGCTTGTGGGAGTTGGAGCTTGGGGAAAGAATGTGGCGAG 360
 QY 361 ATCTGGGATCATTTGATGGCCAAATGGCTCATGGTCAAAAGGAGGACACT 420
 Db 361 ATCTGGGATCATTTGATGGCCAAATGGCTCATGGTCAAAAGGAGGACACT 420
 QY 421 GGAAACGGCCCTTCAGTGGCAATCAGTGGCCGCCTCATGGCTCATGGGAAACCTG 480
 Db 421 GGAAACGGCCCTTCAGTGGCAATCAGTGGCCGCCTCATGGGAAACCTG 480
 QY 481 CTTCGGCACATCAAGCTGTTGGGGAAAGCCCTCAAAATGCCACCTCTGCAACTAC 540
 Db 481 CTTCGGCACATCAAGCTGTTGGGGAAAGCCCTCAAAATGCCACCTCTGCAACTAC 540
 QY 541 GCCTGGCGCGAGGGAAGCCCTCAACTGGGACACTGGGACACTCGTTGGTAACCT 600
 Db 541 GCCTGGCGCCAGGGAAGCCCTCAACTGGGACACTGGGACACTCGTTGGTAACCT 600
 QY 601 CACAAATGGGATATTTGGCCGAGCTATAAACAGGAAGCTTCTTGGAAACATAAA 660
 Db 601 CACAAATGGGATATTTGGCCGAGCTATAAACAGGAAGCTTCTTGGAAACATAAA 660
 QY 661 GAGCGCTGCCAGAACACTTGGAAGCTTCCGGCAACAGTACCTGGCTATT 720
 Db 661 GAGCGCTGCCAGAACACTTGGAAGCTTCCGGCAACAGTACCTGGCTATT 720
 QY 721 AAAGAAGAAACTAAGCAAGCTGAATGAAATGGCAAGAACCTGTGCAAGAGAA 780
 Db 721 AAAGAAGAAACTAAGCAAGCTGAATGAAATGGCAAGAACCTGTGCAAGAGAA 780
 QY 781 TCTCTCGTGGACAGACTGAGCTAAGTAACTGGCTTCCGGCAACAGTACCTGGCTATT 840
 Db 781 TCTCTCGTGGACAGACTGAGCTAAGTAACTGGCTTCCGGCAACAGTACCTGGCTATT 840
 QY 841 AAATTCTGGGACAAGGGCTGTGGCAAGCTGAGCTTCCGGCAACAGTACCTGGCTATT 900
 Db 841 AAATTCTGGGACAAGGGCTGTGGCAAGCTGAGCTTCCGGCAACAGTACCTGGCTATT 900
 QY 901 GAGAACGAATGATGAAAGCTGAGCAAGCTGAGCTTCCGGCAACAGTACCTGGCTATT 960
 Db 901 GAGAACGAATGATGAAAGCTGAGCAAGCTGAGCTTCCGGCAACAGTACCTGGCTATT 960
 QY 961 CTGGGGCCGAGTCCTGGCCCTGTCGGCAAGCGCCCGGGTTCGAGGGGGTC 1020
 Db 961 CTGGGGCCGAGTCCTGGCCCTGTCGGCAAGCGCCCGGGTTCGAGGGGGTC 1020

RESULT 2
 US-08-4165-590-3
 ; Sequence 3, Application US/08465590
 ; Patent No. 5824770
 ; GENERAL INFORMATION:
 ; APPLICANT: Georgopoulos, Katia A.
 ; TITLE OF INVENTION: IRAS: A T CELL PATHWAY REGULATORY GENE
 ; NUMBER OF SEQUENCES: 164
 ; CORRESPONDENCE ADDRESS:
 ; STREET: LAHIVE & COCKFIELD
 ; CITY: BOSTON
 ; STATE: MASSACHUSETTS
 ; COUNTRY: USA
 ; ZIP: 02109
 ; CURRENT APPLICATION DATA:
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Asci.II (text)
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/465,590
 ; FILING DATE: 05-JUN-1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/238,212
 ; FILING DATE: 02-MAY-1994
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/121,438
 ; FILING DATE: 14-SEP-1993
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/946,233
 ; FILING DATE: 14-SEP-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Myers, Paul L.
 ; REGISTRATION NUMBER: 35,695

REFERENCE/DOCKET NUMBER: MPG-006C2DV
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
; LENGTH: 1386 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1386
; US-08-465-590-3

Query Match 89.4%; Score 1386; DB 1; Length 1386;
Best Local Similarity 100.0%; Pred. No. 1..3e-311; Mismatches 1386; Conservative 0; Indels 0; Gaps 0;

Qy 166 ATGTTAAAGTAGAGACTCACAGTGTAGAAGAATGGCTGTGAATAATGG 225
Db 1 ATGTTAAAGTAGAGACTCACAGTGTAGAAGAATGGCTGTGAATAATGG 60
Qy 226 GAAAGATGTGGGAGGATTAGATGCTGTAGTGTAGCTGGAGAAAATGATGGCTGC 285
Db 61 GAAAGATGTGGGAGGATTAGATGCTGTAGTGTAGCTGGAGAAAATGATGGCTGC 120
Qy 286 CACAGGACCAAGGAGCTGGCTTGCGGAGATTGGGACTTCCTAACGA 345
Db 121 CACAGGACCAAGGAGCTGGCTTGCGGAGATTGGGACTTCCTAACGA 180
Qy 346 AACTAAAGCTGTGATATCTGGGATCATTTGATCGGGCCATGTCATGGTTCAC 405
Db 181 AACTAAAGCTGTGATATCTGGGATCATTTGATCGGGCCATGTCATGGTTCAC 240
Qy 406 AAAAGAAGGCCAACCTGGGAAACGGGCCCTCACTGTCAATGCCATTCAAC 465
Db 241 AAAAGAAGGCCAACCTGGGAAACGGGCCCTCACTGTCAATGCCATTCAAC 300
Qy 466 CAGAAGGGCAACCTGGCTCGGCAATAGCTGGGAGAAGGCCCTCAATATGC 525
Db 301 CAGAAGGGCAACCTGGCTCGGCAATAGCTGGGAGAAGGCCCTCAATATGC 360
Qy 526 CACCTCTGAACATPAGCCTGCCTGGCAACTGGCAATCTGGGCTCATGGGCAAC 585
Db 361 CACCTCTGAACATPAGCCTGCCTGGCAACTGGCACTGGGCTCATGGGCAAC 420
Qy 586 TCCGTGGTAACACTCTACAATTGTTGGATATTTGGCCGAAGCTTAACAGGAAGGTCT 645
Db 421 TCCGTGGTAACACTCTACAATTGTTGGATATTTGGCCGAAGCTTAACAGGAAGGTCT 480
Qy 646 TTAGGAGACATAAAGGAAACTAGCTGGCAACTACTGGAAACTATGGCCCTCGGGCACA 705
Db 481 TTAGGAGACATAAAGGCAACTCTACAATTGTTGGATATTTGGCCGAAGCTTAACAGGAAGGTCT 540
Qy 706 CTGTAACCCACTATTAAGGAAACTAAAGGAAACTAAAGGAAACTAGCAAGCTGGCAAG 765
Db 541 CTGTAACCCACTATTAAGGAAACTAAAGGAAACTAAAGGAAACTAGCAAGCTGGCAAG 600
Qy 766 ATAGGATCAGAGAGATCTCGTGTGGACAGACTAGCAAGTAATGTCGCAAACTGGTAAAG 825
Db 601 ATAGGATCAGAGAGATCTCGTGTGGACAGACTAGCAAGTAATGTCGCAAACTGGTAAAG 660
Qy 826 AGCTCTATGCCCTCAGAAATTCTTGGGACAAGGGCTCTGCCACAGGCCTAGAC 885
Db 661 AGCTCTATGCCCTCAGAAATTCTTGGGACAAGGGCTCTGCCACAGGCCTAGAC 720
Qy 886 GGCACCTAGCAGAAAGGAAAGGAAATGATGAAGTGAAGTGAAGGCAAGCCATCAAC 945
Db 721 GGCACCTAGCAGAAAGGAAAGGAAATGATGAAGTGAAGTGAAGGCAAGCCATCAAC 780

Qy 946 AACGCCATCAACTACCTGGGCCAGTCCCTGGCCGCAAGCGCCCTGGGC 1005
Db 781 AACGCCATCAACTACCTGGGCCAGTCCCTGGCCGCAAGCGCCCTGGGC 840
Qy 1006 CGTTCCGAGGGTGGTCCGGCATCACGCCGATGTTGGCAGAGGGCTGGAGGC 1065
Db 841 GTTCCGAGGGTGGTCCGGCATCACGCCGATGTTGGCAGAGGGCTGGAGGC 900
Qy 1066 ACCCGGCTTCCAACCTCGGCCAGAGGCCAGTGGCAAGCTGCTCCTCC 1125
Db 901 ACCCGGCTTCCAACCTCGGCCAGAGGCCAGTGGCAAGCTGCTCCTCC 960
Qy 1126 AAGGCAAGTGGCCCTGGACAGGCCAGTGGCAAGCTGCTCCTCC 1185
Db 961 AAGGCCAAGTGGCCCTGGACAGGCCAGTGGCAAGCTGCTCCTCC 1020
Qy 1186 ACGGACACCCGAGAGCAACAAAGGAGGAGCCAGGGCTTATCTGACCAAACAC 1245
Db 1021 ACGGACACCCGAGAGCAACAAAGGAGGAGCCAGGGCTTATCTGACCAAACAC 1080
Qy 1246 ATGCCCGCACGCCGCAACGCCGTCAGGAGGAGCCGCTAACGCCCTGGCTG 1305
Db 1081 ATGCCCGCACGCCGCAACGCCGTCAGGAGGAGCCGCTAACGCCCTGGCTG 1140
Qy 1306 CGGGCCGCTCCAGAAGCTGGGAGGAGCTGGCTGGCTGGTCAAGGAGGAGCAG 1365
Db 1141 CGGGCCGCTCCAGAAGCTGGGAGGAGCTGGCTGGTCAAGGAGGAGCAG 1200
Qy 1356 ATGAAAGGGTACAGGAGCTGGGATCACGCTGGCTCTTCCTGGATCACGCTCATGAC 1425
Db 1201 ATGAAAGGTGAAAGTGAAGCTGGGCTGCTTCCTGGATCACGCTCATGACACC 1260
Qy 1426 ATCCACATGGCTGCAACGGCTTCCTGGATCTCTTGGCAATATGGGGTACAC 1485
Db 1261 ATCCACATGGCTGCAACGGCTTCCTGGATCTCTTGGCAACATGGGGTACAC 1320
Qy 1486 AGCCAGGACCCGGTACAGGATCTCTGGTCACTAACCGAGGGGACCCCTTCACATG 1545
Db 1321 AGCCAGGACCCGGTACAGGATCTCTGGTCACTAACCGAGGGGACCCCTTCACATG 1380
Qy 1546 AGCTAA 1551
Db 1381 AGCTAA 1386

RESULT 3
US-08-283-300A-2
; Sequence 2, Application US/0828330A
; Patent No. 6172278
; GENERAL INFORMATION:
; APPLICANT: Georgopoulos, Katia A.
; TITLE OF INVENTION: IKAROS TRANSOMIC CELLS AND ANIMALS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESS: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, Suite 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII (text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/283,300A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/238,212
; FILING DATE: 02-MAY-94
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/121,438

FILING DATE: 14-SEP-1993
 PRIORITY APPLICATION DATA: US 07/946,233
 APPLICATION NUMBER: US 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Paul L.
 REGISTRATION NUMBER: 35,695
 REFERENCE/DOCNET NUMBER: MGP-027
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 227-7400
 FAX: (617) 227-5941
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1386 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 NAME/KEY: CDS
 LOCATION: 1..1386
 ; -US-08-283-300A-2

Query Match 89,4%; Score 1386; DB 4; Length 1386;
 Best Local Similarity 100.0%; Pred. No. 1..3e-311; Indels 0; Gaps 0;
 Matches 1386; Conservative 0; Misnatches 0;

Qy 166	AATGTAAGTAGACTCAGAGTGTGAAGAATGAAATGATGGG	225
Db 1	AATTTAAAGTAGAGACTCAGAGTGTGAAGAATGAAATGATGGG	60
Qy 226	CAACGGACCAAGCAGCTGGGGATTGGAGGATTCCTAACCGGA	345
Db 61	GAAGAATGTGGGAGGATTAGCAATGGCTTGATGCCCTGGCC	120
Qy 286	CACAGGACCAAGCAGCTGGGGATTGGAGGATTCCTAACCGGA	180
Db 121	CACAGGACCAAGCAGCTGGGGATTGGAGGATTCCTAACCGGA	180
Qy 346	AAACTAAAGTGTGATACTCTGGGATCATTTGCATGGCTTCAC	405
Db 181	AAACTAAAGTGTGATACTCTGGGATCATTTGCATGGCTTCAC	240
Qy 406	AAAAGAAGGACACACTGGAGAACCTCGCCACATCAAGCTGCA	465
Db 241	AAAAGAAGGACACACTGGAGAACCTCGCCACATCAAGCTGCA	300
Qy 466	CAGAAGGGCAACCTCGCCACATCAAGCTGCAATTGGGACCTC	525
Db 301	CAGAAGGGCAACCTCGCCACATCAAGCTGCAATTGGGACCTC	360
Qy 526	CACCTCTGAACTACCCCTCCGCCGGAGGACGCCCTCACTGCC	585
Db 361	CACCTCTGAACTACCCCTCCGCCGGAGGACGCCCTCACTGCC	420
Qy 586	TCCGTTGGTAACCTACAATGTTGATATGTGCCGAGCTATAAC	645
Db 421	TCCGTTGGTAACCTACAATGTTGATATGTGCCGAGCTATAAC	480
Qy 646	TTAGAGGAACATAAAAGGCCGCTGCCAACACTTGAAAGCATTG	705
Db 481	TTAGAGGAACATAAAAGGCCGCTGCCAACACTTGAAAGCATTG	540
Qy 706	CTGTACCCGATGTCATTAAAGAAACTAACCTGAAATGGCAA	765
Db 541	CTGTACCCGATGTCATTAAAGAAACTAACCTGAAATGGCAA	600
Qy 766	ATAGGATGAGAGATGTCGTCGGACAGACTAGCAATAATG	825
Db 601	ATAGGATGAGAGATGTCGTCGGACAGACTAGCAATAATG	660
Qy 826	AGCTCTATGCCCTCGAACAGGGCCTAGCACAGGCCCTAG	885

RESULT 4

US-08-711-417C-3

; Sequence 3, Application US/08711417C

; Patent No. 622611

; GENERAL INFORMATION:

; APPLICANT: Georgopoulos, Katalia A.

; TITLE OF INVENTION: IKAROS; A T CELL PATHWAY REGULATORY GENE

; NUMBER OF SEQUENCES: 202

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: Windows 95

; SOFTWARE: FastSEQ for Windows Version 2.0b

; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/711,417C
 FILING DATE: 05-SEP-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/238,212
 FILING DATE: 02-MAY-1994
 APPLICATION NUMBER: 08/121,438
 FILING DATE: 14-SEP-1993
 APPLICATION NUMBER: 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Louis P.
 REGISTRATION NUMBER: 35,965
 REFERENCE/DOCKET NUMBER: 10287/007001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1386 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1...1383
 SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-08-711-417C-3

Query Match 89 4%; Score 1386; DB 4%; Length 1386;
 Best Local Similarity 100.0%; Pred. No. 1.3e-11;
 Matches 1386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 166 AATGTTAAGTAGACTCAGCTGATACTGAAAGAGAAATGGCGTGCCTGTGAATGAAATGG 225
 Db 1 AATGTTAAGTAGACTCAGCTGATACTGAAAGAGAAATGGCGTGCCTGTGAATGAAATGG 60
 Qy 226 GAAAATATGCGGAGGATTACAAATGCTTGTGCTCGGGAGAGAAAATGAAATGGCTTC 285
 Db 61 GAAAGAATGTGGAGGATTAGAAATCTTGTGCTCGGGAGAGAAAATGAAATGGCTTC 120
 Qy 286 CAAAGGGACCAGGCCACTCGCCATTGCGGAGTTGGAGCATTCGACTCTCTAACGGA 345
 Db 121 CACGGGACCAGGCCACTCGCCATTGCGGAGTTGGAGCATTCGACTCTAACGGA 180
 Qy 346 AACAACTAAGTGATATCTGTGGATCATTTGCAATGGCCCAATATGGTTCAC 405
 Db 181 AACAACTAAGTGATATCTGTGGATCATTTGCAATGGCCCAATATGGTTCAC 240
 Qy 406 AAAAGAAGGCCACATGGAGACGCCCTTCAGTCGCAATCGCTGGGCCCTTAATTCAAC 465
 Db 241 AAAAGAAGGCCACATGGAGACGCCCTTCAGTCGCAATCGCTGGGCCCTTAATTCAAC 300
 Qy 466 CAGAAGGGCAACCTGTCTCCGCCACATCAAGCTGGAGAACGCCCTAACATGC 525
 Db 301 CAGAAGGGCAACCTGTCTCCGCCACATCAAGCTGGAGAACGCCCTAACATGC 360
 Qy 526 CACCTCTGCAACTACGCCCTCCGGGGAGGGACGCCCTCACTGGCCACCTGGAGGCCAC 85
 Db 361 CACCTCTGCAACTACGCCCTCCGGGGAGGGACGCCCTCACTGGCCACCTGGAGGCCAC 420
 Qy 586 TCCGTTGGTAACCTCACAAATGGATATTGGCAACTTCAGCCCTCACTGGCCACCTGGAGGCCAC 645
 Db 421 TCCGTTGGTAACCTCACAAATGGATATTGGCAACTTCAGCCCTCACTGGAGGCCAC 480
 Qy 646 TTAGAGGAACATAAGGGCTGCACAACTACTTGGAAAGGATGGCCCTTCGGGCACA 705
 Db 481 TTAGAGGAACATAAGGGCTGCACAACTACTTGGAAAGGATGGCCCTTCGGGCACA 540
 Qy 706 CTGTACCCAGTCATTAAGGAAGAACTAAGCACTGAAATGGCAAGACCTGTGCAAG 765

Db 541 CTGTACCCAGTCATTAAGGAAGAACTAAGCACTGAAATGGCAAGAGACCTGTGCAAG 600
 Qy 766 ATAGGATCAGAGATCTCCTGCTGTGAGAGACTAGGAAATGGCTGGCCAAACGTTAG 825
 Db 601 ATAGGATCAGAGATCTCCTGCTGTGAGAGACTAGGAAATGGCTGGCCAAACGTTAG 660
 Qy 826 AGCTCTATGGCTCAGAAATTCTTGGGGACAAGGGCCTGGCCACAGGCCCTAACGAGT 885
 Db 661 AGCTCTATGGCTCAGAAATTCTTGGGGACAAGGGCCTGGCCACAGGCCCTAACGAGT 720
 Qy 886 GCCACCTACGAGAAGGAAATGTAAGSTCCCGTGTGCAAGAACATCAAC 945
 Db 721 GCCACGTACAGAGAGAACGAAATGTAAGCTCCGTGATGGCAANGCCRTCAAC 780
 Qy 946 AACGCCATCAACTACTGCGGGCGAGTCGCGCTGGCGCTGGCGCTGGCG 1005
 Db 781 AACGCCATCAACTACCTGGGGCGAGTCGCGCTGGCGCTGGCGCTGGCG 840
 Qy 1006 GGTTCCGAGGTGGTCCCSTCATCAGCCGATGTAAGCTGGCTGCAAGGGCTG 1065
 Db 841 GGTTCCGAGGTGGTCCCSTCATCAGCCGATGTAAGCTGGCTGCAAGGGCTG 900
 Qy 1066 ACCCGCGTCCAAACACTCGGCCAGACGCCGTTGGAGTACCTGGCTCTCC 1125
 Db 901 ACCCGCGTCCAAACACTCGGCCAGACGCCGTTGGAGTACCTGGCTCTCC 960
 Qy 1126 AAGCCAAGTTGGTGCCTCGGAGCGCGAGTCAGCCGATGTAAGCTGGCAAGACTCC 1185
 Db 961 AAGGCCAGTTGGTGCCTCGAGCGGAGTCGCCAGAACGCGCCAGACTCC 1020
 Qy 1186 ACGGACACCGAGAACACAGGAGCAGCCAGGGCTTATCTACCTGACCAACCC 1245
 Db 1021 ACCGACACCGAGAACACAGGAGCAGCCAGGGCTTATCTACCTGACCAACCC 1080
 Qy 1246 ATGCCGCCACGGCGCAAGGGAGCACGCCCTACGACCTGCTGC 1305
 Db 1081 ATGCCGCCACGGCGCAAGGGAGCACGCCCTACGACCTGCTGC 1140
 Qy 1306 CGGCCGCCCTCGGAGACTCCAGAACGCCGCTCCCGTGGTCAGCACCAGGGGAGCA 1365
 Db 1141 CGGCCGCCCTCGGAGACTCCAGAACGCCGCTCCGGTGGTCAGCACCAGGGGAGCA 1200
 Qy 1366 ATGAAGTGTACAAGTGAACTCCAGAACGCCGCTCCGGTGGTCAGCACCAGGGGAGCA 1425
 Db 1201 ATGAAGTGTACAAGTGAACTCCAGAACACTGGGGTCAGTCATGTAAC 1260
 Qy 1426 ATCCACATGGCTGCCACGCTTCGGTACATGGCTTCGGTACATGGCTACAC 1485
 Db 1261 ATCCACATGGCTGCCACGCTTCGGTACATGGCTTCGGTACATGGCTACAC 1320
 Qy 1486 AGCCAGGACCGGTAGAATGCTTCAGTCGCAATACGCCAGGGAGCACGCCCTCACATG 1545
 Db 1321 AGCCAGGACCGGTAGAATGCTTCAGTCGCAATACGCCAGGGAGCACGCCCTCACATG 1380
 Qy 1546 AGCTAA 1551
 Db 1381 AGCTAA 1386

RESULT 5
 PCT-US95-09345-2
 Sequence 2, Application PC/TUS9509345
 GENERAL INFORMATION:
 APPLICANT: Georgopoulos, Katerina A.
 TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COCKFIELD
 STREET: 60 STATE STREET, Suite 510
 CITY: BOSTON
 STATE: MASSACHUSETTS
 ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII (text)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT-US95/09345

FILING DATE: 02-MAY-94

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/283,300

FILING DATE: 29-JULY-94

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/236,212

FILING DATE: 02-MAY-94

ATTORNEY/AGENT INFORMATION:

NAME: Myers, Paul L.

REGISTRATION NUMBER: 35,695

REFERENCE/DOCKET INFORMATION:

REFERENCE NUMBER: MGP-027PC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

SEQUENCE CHARACTERISTICS:

SEQUENCE FOR SEQ ID NO: 2:

LENGTH: 1386 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..1386

PCT-US95-09345-2

Query Match 89.4%; Score 1386; DB 5; Length 1386;

Best Local Similarity 100.0%; Pred. No. 1..3e-311;

Matches 1388; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 166 AATGTTAAAGTAGAGACTCAGTGTGATAAGAGAAATGGG 225

Db 1 AATTTAAAGTAGAGACTCAGTGTGATAAGAGAAATGG 60

Qy 226 GAAAATGCGGAGGATTAGAATGCTTGATGCCCTGGCTGTGAATGG 285

Db 61 GAAAGATGCGGAGGATTAGAATGCTTGATGCCCTGGCTGTGAATGG 120

Qy 346 AACTAAAGTGATGATTCGGATCATTTGCATGGCCCAATGCTGTAC 405

Db 181 AAACTAAGTGATATCTGGATCATTTGCATGGCCCAATGCTGTAC 240

Qy 406 AAAAGAGGCAACATGGAGAACGGCCCTCACTGCAATCATTCACC 465

Db 241 AAAAGAGGCCAACATGGAGAACGGCCCTCACTGCAATCATTCACC 300

Qy 466 CAGAAGGGCAACCTGGCTTCCTGGCACATCAAGCTGGATGGCCCAATG 525

Db 301 CAGAAGGGCAACCTGGCTTCCTGGCACATCAAGCTGGCCATGGCCCAATG 360

Qy 526 CACCTCTGCACATCTGGCTTCCTGGCACATCAAGCTGGCCATGGCCCA 585

Db 361 CACCTCTGCACATCTGGCTTCCTGGCACATCAAGCTGGCCATGGCCCA 420

Qy 586 TCCGTTGGTAAACCTCACAAATGTCGATATGTGGCGAAGCTATAAACAGCGAACGCT 645

Db 421 TCCGTTGGTAAACCTCACAAATGTCGATATGTGGCGAAGCTATAAACAGCGAACGCT 480

Qy 646 TTAGGAACTAAAGAGCGTGCACACTACTTGGAAAGCATGGGCTTCGGGACA 705

Db 481 TTAGGAACTAAAGAGCGTGCACACTACTTGGAAAGCATGGGCTTCGGGACA 540

Qy 706 CTGTACCCAGTCATTAAGAGAAACTAACACAGTGAATGGCAAAGAACCTGTGCAAG 765

Db 541 CTGTACCCAGTCATTAAGAGAAACTAACACAGTGAATGGCAAAGAACCTGTGCAAG 600

Qy 766 ATAGGATCAGAGAGATCTCGTGTGGAGACTAGCAGTAATGTCCCAGAACCTGTAAG 825

Db 601 ATAGGATCAGAGATCTCGTGTGGAGACTAGCAGTAATGTCCCAGAACCTGTAAG 660

Qy 826 AGCTCTATGCCCTCGAAATTTCTGGGACAAAGGGCTGTGCGAGCAGCTAGCAGT 885

Db 661 AGCTCTATGCCCTCGAAATTTCTGGGACAAAGGGCTGTGCGAGCAGCTAGCAGT 720

Qy 886 GCCACGTAGAGAGAGAGAGAAATGATAAGTCCCACCTGTATGCCAAAGCTAC 945

Db 721 GCCACGTAGAGAGAAACCTAACATGAAATGAGCTGATGCCAAAGCTAC 780

Qy 946 AACGCCATTAACCTACCCGGGACTCCCTGGGACTCCCTGGGACTCCCTGGG 1005

Db 781 AACGCCATTAACCTACCCGGGACTCCCTGGGACTCCCTGGGACTCCCTGGG 840

Db 1006 GGTTTCGAGGTTGGTGGCCGAGCTCCCTGGGCGACTCCCTGGGACTCCCTGGG 900

Db 841 GGTTTCGAGGTTGGTGGCCGAGCTCCCTGGGACTCCCTGGGACTCCCTGGG 900

Db 961 AACGCCAAAGTTGGCCGAGCTCCCTGGGACTCCCTGGGACTCCCTGGG 1020

Db 1066 ACCCGCGCTCCACCACTCGGCCAGGAAGGGCGTGGACTACTTGCTGCTGCTC 1125

Db 901 ACCCGCGCTCCACCACTCGGCCAGGAAGGGCGTGGACTACTTGCTGCTC 960

Qy 1126 AAGGCCAAAGTTGGCCGAGCTCCCTGGGACTCCCTGGGACTCCCTGGG 1185

Db 961 AACGCCAAAGTTGGCCGAGCTCCCTGGGACTCCCTGGGACTCCCTGGG 1185

Db 1186 AGGGCACCGAGAGGAAACACAGGAGGCAAGCGCAGGCTTATCTGACCAAC 1245

Db 1021 AGGGCACCGAGAGGAAACACAGGAGGCAAGCGCAGGCTTATCTGACCAAC 1080

Qy 1306 CGGCCCTCCGAGACTGGCAGGACGGCTTCAGGAGACGGCTTCAGGAGACGG 1365

Db 1141 CGGCCGCTCCGAGACTGGCAGGACGGCTTCAGGAGACGGCTTCAGGAGACGG 1200

Db 1081 ATCGGCCGACCGCGCAACCGTGCCTGGCCATAGGAGACGGCTTCAGGAGACGG 1140

Qy 1366 ATGAAAGSTGTTAAAGTGAAACTCGCCGGTGTCTCTGGATCTGTCATGTCAC 1425

Db 1201 ATGAAAGTTGATCAAAGTGAAACTCGCCGGTGTCTCTGGATCTGTCATGTCAC 1260

Qy 1426 ATCCACATGGGTGCACGGTTCCTGATCCTTGTGTCACATGCGGCTTAC 1485

Db 1261 ATCCACATGGGTGCACGGTTCCTGATCCTTGTGTCACATGCGGCTTAC 1320

Qy 1546 AGCTAA 1551

Db 1381 AGCTAA 1386

RESULT 6
PCT-IH9-08743-3
; Sequence 3, Application PC/TUS9308743
; GENERAL INFORMATION:
; APPLICANT:

```

TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE
NUMBER OF SEQUENCES: 152
COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: ASCII

CURRENT APPLICATION DATA:
    APPLICATION NUMBER: PCT/US93/08743
    APPLICATION NUMBER: US 946 233
    FILING DATE: 14-SEP-1992
    TELECOMMUNICATION INFORMATION
    TELEPHONE: (617)227-7400
    TELEFAX: (617)227-5941
    INFORMATION FOR SEQ ID NO: 3:
        SEQUENCE CHARACTERISTICS:
            LENGTH: 1611 base pairs
            TYPE: nucleic acid
            STRANDEDNESS: single
            TOPOLOGY: linear
            MOLECULE TYPE: cDNA
        FEATURE:
            NAME/KEY: CDS
            LOCATION: 1..1611
PCT-US93-08743-3

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	Query Match	Score	Length
Qy	GGCACTAATGTTAAAGTAGAGACTCAGTGTAGTAAGAGATAATGCCGCTGCTGTGAATG	89.1%	1382.4; DB 5;
Db	GCCAGTAATGTTAAAGTAGAGACTCAGTGTAGTAAGAGATAATGCCGCTGCTGTGAATG	99.6%; Pre. No. 9-8-311;	Length 1611;
Qy	AATGGGAAAGAAATCTGGCGGAGATTACGAATGCTGTAGTGCGGAGAAATGAAATG	0; Mismatches 6;	Indels 0; Gaps
Db	AATGGGAAAGAAATCTGGCGGAGATTACGAATGCTGTAGTGCGGAGAAATGAAATG	160	219
Qy	GGCTCCACAGGGACCAAGGCACCTGGGAGCTGGGAGATTAGAATGCTGTAGTGCGGAGAAATGAA	220	279
Db	GGCTCCACAGGGACCAAGGCACCTGGGAGCTGGGAGATTAGAATGCTGTAGTGCGGAGAAATGAA	217	276
Qy	AACGGAAACTAAAGTGATATCTGGGATCATGGGATTCATGGCATGGCCCAATGTGTCATG	280	336
Db	AACGGAAACTAAAGTGATATCTGGGATCATGGGATTCATGGCATGGCCCAATGTGTCATG	337	396
Qy	TTACCCCCAGGGCACAGGCAGCTGGGAGCTGGGAGATGGCCATTCGACTTCCT	340	339
Db	TTACCCCCAGGGCACAGGCAGCTGGGAGCTGGGAGATGGCCATTCGACTTCCT	397	399
Qy	GTTCACACAAGGGCACACTGGGAGCTGGGATCATGGGATTCATGGCATGGCCCAATGTGTCATG	400	456
Db	GTTCACACAAGGGCACACTGGGAGCTGGGATCATGGGATTCATGGCATGGCCCAATGTGTCATG	457	459
Qy	TTACCCCCAGGGCACACTGGGAGCTGGGAGATGGCCATTCGACTTCCT	460	519
Db	TTACCCCCAGGGCACACTGGGAGCTGGGAGATGGCCATTCGACTTCCT	517	516
Qy	AAATGGCCACCTGTGAACTAGCCCTCCGGCACATCAAGCTGATTCGGGAGAACCCCTTC	520	576
Db	AAATGGCCACCTGTGAACTAGCCCTCCGGCACATCAAGCTGATTCGGGAGAACCCCTTC	577	579
Qy	ACCCACTCGTGTGGTAAACCTCACAAATGTGGGATATTGGCCGAAAGCTTAAACAGGCA	580	636
Db	ACCCACTCGTGTGGTAAACCTCACAAATGTGGGATATTGGCCGAAAGCTTAAACAGGCA	637	639
Qy	GGCACACTGTACCGTCATTAAGAGAACATAAGAGCCCTGCCACAACTACTTGGAAAGCATGGCCTTCGG	640	756
Db	GGCACACTGTACCGTCATTAAGAGAACATAAGAGCCCTGCCACAACTACTTGGAAAGCATGGCCTTCGG	697	699
Qy	GGCACACTGTACCGTCATTAAGAGAACATAAGAGCCCTGCCACAACTACTTGGAAAGCATGGCCTTCGG	700	759
Db	GGCACACTGTACCGTCATTAAGAGAACATAAGAGCCCTGCCACAACTACTTGGAAAGCATGGCCTTCGG	757	816
Qy	TGGCAAGATAGGATCAGAGAGATCTCTCGTGGACAGACTACCAAGTAATGTGCAA	760	819

Qy	241	GATTAGTACGATGCTGTATGGCTCCTGGAGGAAATGATGGCTCCACAGGGACCAAGGC	300
Db	463	GATTAGTACGATGCTGTATGGCTCCTGGAGGAAATGATGGCTCCACAGGGACCAAGGC	522
Qy	301	AGCTGGCTTTGTGCGGAGTTGGAGCTTGAATTGAGCTTCAAGGAAACTAAGATGTGAT	360
Db	523	AGCTGGCTTTGTGCGGAGTTGGAGCTTGAATTGAGCTTCAAGGAAACTAAGATGTGAT	582
Qy	361	ATCTGGGGATCATTTGCAATGGGCCAATGTCATGGTTCATGGTCAAGGAACTGCACT	420
Db	583	ATCTGGGGATCATGGGCCAATGTCATGGTTCATGGTCAAGGAACTGCACT	642
Qy	421	GGAGAACGSCCPTTCAGTGCAATCAGTGCGGCTCATGGGGCTCATGGGGCTCATGGGGCT	480
Db	643	GGTAGACGGCTTTCAGTGCAARCCACTGTGGGCCCTTACCGGAAAGGCAACCTC	702
Qy	481	CTCGGACATCACTAAGCTGCAATGGGGAGAACGCCUTCAATGGCACCTCTGGCAACTAC	540
Db	703	CTCGGACATCACTAAGCTGCAATGGGGAGAACGCCUTCAATGGCACCTCTGGCAACTAT	762
Qy	541	GCTCTGGCGGGAGGAGCGCCCTCACTGGCCACCTGGAGGAGCCCTCAATGCCATCTGGAAACCT	600
Db	763	GCTCTGGCGGGAGGAGCGCCCTCACTGGCCACCTGGAGGAGCCCTCAATGCCATCTGGAAACCT	822
Qy	601	CACAACTGGGATATTGGCGGAAGCTATAAACACCGAACGCTCTGGGCAACACTGTAACCTG	660
Db	823	CACAACTGGGATATTGGCGGAAGCTATAAACACCGAACGCTCTGGGCAACACTGTAACCTG	882
Qy	661	GACGCGTGCACAACTACTTGGAAAGCATGGGCTTICGGGCAACACTGTAACCTGTAACCTG	720
Db	883	GACGCGTGCACAACTACTTGGAAACATGGGCCCTTCCGGGCAACACTGTAACCTGTAACCTG	939
Qy	721	AAAGAGAAACTAAGCACAGTGAAATGGAGAACGCTGTGCAAGATAAGGATCAGAGAGA	780
Db	940	AAAGAGAAACTAACACAAAGAGATGGAGAACGCTGTGCAAGATAAGGAGAGGAGG	999
Qy	781	TCTGGTCTGGGACACAGTGGACACTAGCAACTAATGTCGCAAAAGCTAAGGCTCTGGCT	840
Db	1000	TCTGGTCTGGGACACAGTGGACAGGCTGGCAAAAGCTAAGGCTCTGGCT	1059
Qy	841	AAATTCTCTGGGACACAGTGGACAAATGGAGAACGCTGTGCAAGATAAGGAGAGG	900
Db	1060	AAATTCTCTGGGACACAGTGGACAAATGGAGAACGCTGTGCAAGATAAGGAGAGG	1119
Qy	901	GAGAACGAAATGATGAGAATGCTGGACCTGATGGACCACTCAGGCTCTGGCT	960
Db	1120	GAG--GATAATGATGACATCCCACCTGGACCTGACGGCTCATACATGGCT	1176
Qy	961	CTGGGGCCGGAGTCTGGCCCTGGCGCGCTGGCTGGAGGCTCATACAGGCTCATACATGGCT	1020
Db	1177	CTGGGGCCGGAGTCTGGCCCTGGCGCGCTGGCGAGGCTCATACAGGCTCATACATGGCT	1236
Qy	1021	CGGGTATCACCGGATGACAGTGGACAGCTGGGACACCCGGCTCC	1077
Db	1237	CGGGTATCACCGGATGACAGTGGACAGCTGGGACACCCGGCTCC	1296
Qy	1078	AACCACTCGGGGACAGGACCGGGCTGGAGTACCTGGCTCTGGCTCAGGCTCATACCTG	1137
Db	1297	AACCATCACGGACAGA--CGCGTGGATAACTCTGGCTGCTGGCTCAAGGCCAACTCT	1353
Qy	1138	GTGGCCCTGGGAGGAGGAGGAGGGTCCGGGACAGCTGGCTCATACCTG	1197
Db	1354	GTGTATCGAGCGAGAGGGCTCCGGAGAACAGCTCCAGACTCAGATAGAG	1413
Qy	1198	AGCAACACASAGGGACAGGGCAAGCTGGCTTACCTGACCAACACATCCCCAGGC	1257
Db	1414	AGCAACAGGGACAGGGACAGGGACAGGGCAAGCTGGCTTACCTGACCAACACATCCCCAGGC	1473
Qy	1258	GGC--AACGGCTGGCTCAAGGAGGAGGACCCGCTTACGACCTGCTGGCTGGCC	1314
Db	1474	GCACGCAATGGGCTGGCTCAAGGAGGAGGACCCGCTTACGACCTGCTGGCTGGCC	1533

1315 TCCGAGAACTCGGAGACGGCTCCGGTGTGCAACAGGGAGATGAAGGTG 1374
 QY ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 1534 TCAGAGAATCGCAGATGCCCTTCGGTGGCAGACTGCATGAGCTGGCTG 1593
 Db ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 1375 TACAGTGGCAAACCTGCGGGTCTCTCTGGATCACCATCACATG 1434
 QY ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 1594 TACAGTGGAAACACTGCGGTGCTCTCCGGATGACGTCATGATACATG 1653
 Db ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 QY 1435 - - - - - GCGTGCACCGCTTCGGATCCTTTAGTGCACATGTGGCTTACAC 1485
 Db ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 QY 1486 AGCCAGGACGGTAGAGTTCTGTGGCACATAACCGAGGGAGCACCATG 1545
 Db ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 1714 AGCCAGGAGGTACAGTGTCTCATCCCATACAGCGGGGGACATGTTACCTG 1773
 QY 1546 AGCTTA 1551
 Db ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 QY 1774 AGCTTA 1779

RESULT 9
 US-08-711-417C-5
 Sequence 5, Application US/08711417C
 Patent No. 628611
 GENERAL INFORMATION:
 APPLICANT: Georgopoulos, Katia A.
 TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE
 NUMBER OF SEQUENCES: 202
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02110-2804

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows 95
 SOFTWARE: PastSeq for Windows Version 2.0b

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/711,417C
 FILING DATE: 05-Sep-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/238,212
 FILING DATE: 02-MAY-1994
 APPLICATION NUMBER: 08/121,438
 FILING DATE: 14-SEP-1993
 APPLICATION NUMBER: 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Louis P.
 REGISTRATION NUMBER: 35,965
 REFERENCE/DOCKET NUMBER: 10287/007001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2049 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 MOLECULE TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE: NAME/KEY: Coding Sequence
 LOCATION: 233...1776
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-08-711-417C-5

Query	Match	Score	DB 4;	Length	2049;
Best Local	Similarity	75.7%			
Matches	Conservative	87.2%	Pred.	No.	9.5e-263;
Mismatches	0;		Mismatches	177;	Indels
Spacers	0;		Spacers	24;	Gaps
Qy	1 ATGGATGCTGACGAGGTCAAGACATGTCCTCATCAGGAAGGAAGCCGCCCTGTA	60			
Db	223 ATGGATGCTGATGAGGTCAAGACATGTCCTCATCAGGAAGGAAGCCGCCCTGTC	282			
Qy	61 AGCGATACTCCAGATGAGGGATGAGCCATGCGGATCCCAGAACCTCTCCACACC	120			
Db	283 AGTGCACACTCAGATGAGGGATGAGCCATGCGCTGTGAGCCATCTGCTACCC	342			
Qy	121 TCGGGAGCACGCAAAGCTCCAAGACTGACAGAGTGTCAGTAATGTTAACTAGAG	180			
Db	343 TCGGAGCACGAGACTCAAGACTGAGCCATGCGCTGTGAGCCATCTGCTACCC	402			
Qy	181 ACTCGAGTGTAGAAGAAATGGCGTGGCTGTGAATGATGAGGAAAGATGTGCCGAG	240			
Db	403 ACTCGAGTGTAGAAGAAATGGCGTGGCTGTGAATGATGAGGAAAGATGTGCCGAG	462			
Qy	241 GATTAGCAGCTGTGATGCCCTCGGGAGAGAAAATGAATGGCTCCACAGGGACCAAGGC	300			
Db	463 GATTAGCAATCTGTGATGCCCTCGGGAGAGAAAATGAATGGCTCCACAGGGACCAAGGC	522			
Qy	301 AGCTGCGCTTGTGGAGTGGAGGATTCAGCTCTACGGAAAACCTAAAGCTGTGAT	360			
Db	523 AGCTCGGGTTGTGAGCTGAGGATTCAGGTTGAGGCTATGGCTCATGGTCAACAGTC	582			
Qy	361 ATCTGTTGGATCATTTGCACTGGCCCATATGGCTCATGGTCAACAGGGACCAACT	420			
Db	583 ATCTGTTGGATGTGTTGCACTGGCCCATATGGCTCATGGTCAACAGGGACCAACT	642			
Qy	421 GGAAAGCAGGCCCTTCAGTCAGTCAGTGGGGCTTCATTCAGCGAGGGCAACCTG	480			
Db	643 GGTAAGAACGCCCTTCAGTCAGACCATCTGGGCCCTCTTATCCCGAAGGGCANCCTC	702			
Qy	481 CTCGGGCACATCAAGCTGCATTCGGGGAGAGCCCCCTAAATGCCACCTCTGCAACTAC	540			
Db	703 CTCGGGCACATCAAGCTGCATTCGGGGAGAGCCCCCTACCTGGCCACCTGAGGACGACTCTGGCAACT	762			
Qy	541 GCTGCGCCGCATCAAGCTGCATTCGGGGAGAGCCCCCTACCTGGCCACCTGAGGACGACTCTGGCAACT	600			
Db	763 GCTGCGCCGCATCAAGCTGCATTCGGGGAGAGCCCCCTACCTGGCCACCTGAGGACGACTCTGGCAACT	822			
Qy	601 CACAATGGATATGGGCCAAAGCTATAACAGCCAAACGCTTCTAGGAAACATAAA	660			
Db	823 CACAATGGATATGGGCCAAAGCTCTTCTGGCCGAGCTATAACAGCCAAACGCTTCTAGGAGGCAATAAA	882			
Qy	661 GAGGGCTGGCACACAACTCTGGAAAGCATGGCAACTCTGGCCCTACCTGAGGACGACTCTGGCAACT	720			
Db	883 GAGGATGGCACACAACTCTGGAAAGCATGGCAACTCTGGCCCTACCTGAGGACGACTCTGGCAACT	939			
Qy	721 AAGAAGAAACTAAGCAGTGAATGGCAAGACCTGTGCAAGATAGGATAGAGGA	780			
Db	940 AAGGAGAAACTACCAAGAGATGGGAAGACCTGTGCAAGATAGGAGGAGGG	999			
Qy	781 TCTCTGTCGTCGGACAGACTGGCAAGTAACTGGCTCAACGCTCTATGCCCTGAG	840			
Db	1000 TCCCTTGTCCTGGACAGGTGGCAAGCATGTCCTGAGCTCTATGCCCTGAGCT	1059			
Qy	841 AAATTCTCTGGACAGGGCTGTCCGACAGCTGGCCCTACCTGAGCTCTATGCCCTGAG	900			
Db	1060 AAATTCTCTGGACAGGGCTGTCCGACAGGTGGCAAGCATGTCCTGAGCTCTATGCCCTGAG	1119			
Qy	901 GAGAACGAAATGATGAGGAGGCCAGGTGAATGAGCAACCTACATCAACCCATCAACTAC	960			
Db	1120 GAG -- -GATATGAGCACATCCAGCTGAGGCAAGCTGAGGCACTACATCAACCTAC	1176			
Qy	961 CTGGGGGGCGAGTCTGCCCTGCGCCCGCTGCTCAGAGGCCCTGGGGTTCGAGGTGTC	1020			
Db	1177 CTGGGGGCTAGTCCTGGCCCATGGAGACACCCCGGTAGTCGGAGGTTGTC	1236			
Qy	1021 CGGGTCATCAGCCGATCTACCGTAGGACAGGG -- -CGCTGGAGGGCACCCGGCTTC	1077			

RESULT 10
 PCT-US95-09345-4
 ; Sequence 4, Application PC/TUS9509345
 ; GENERAL INFORMATION:
 ; APPLICANT: Georgopoulos, Katerina A.
 ; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS
 ; NUMBER OF SEQUENCES: 26
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: LAHIVE & COCKFIELD
 ; STREET: 60 STATE STREET, Suite 510
 ; CITY: BOSTON
 ; STATE: MASSACHUSETTS
 ; COUNTRY: USA
 ; ZIP: 02109
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: ASCII (text)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US95/09345
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/283,300
 ; FILING DATE: 29-JULY-94.
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/238,212
 ; FILING DATE: 02-MAY-94
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/121,438
 ; FILING DATE: 14-SEP-1993
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/946,233

FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Paul L.
 REGISTRATION NUMBER: 35,695
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ. ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2049 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 223..1776
 PCT-US95-09345-4

Query Match Score 1174.8; DB 5;
 Best Local Similarity 87.2%; Pred. No. 9.5e-263;
 Matches 1365; Conservative 0; Mismatches 177; Indels 24; Gaps 6;

Qy 1 ATGGATGCGTGACGAGGGTAAAGACATGCTTTCATCAGGGAGGAAGCCCCCTGT 60
 Db 223 ATGGATGTCGATGAGGGTAAAGACATGTCGCCAAGTTCAGGAAAGGAGCCAGTC 282
 Qy 61 AGCGATACTCCAGATGGGGATGGGCCATGCCATGCCATGCCAGACTCTCACACC 120
 Db 283 AGTGCACCTCCAGATGAAGGGATGGCCATGCCATGCCATGCCAGCTGTCACATTAC 342
 Qy 121 TCGGGAGGAGCAAGCTCCAGGAGAACCTGGCTGGCTGGCTGGAGCTGAGGTG 1593
 Db 343 TCTGGAGCACGGAGAACCTCCAGATGAGATGGGATGGCCATGGCAATGGTAGAG 402
 Qy 181 ACTAGAGATGAGAGATGGCGTGCGCTGTGAAATGTAATGGGAAAGAATGGTAGAG 240
 Db 403 ACTAGAGATGAGAGATGGGATGGCCATGGGATGGCCATGGGATGGTAGAG 462
 Qy 241 GATTACAGATGCTGATGGGATGGGAGGAAATGATGGCTGAAATGTAATGGGAGAG 300
 Db 463 GATTACAGATGCTGATGGGATGGGATGGCCATGGGAAAGAATGATGGCTGGAGGC 522
 Qy 301 AGCTGGCTTGTGGGTTGGGGATGGGATGGGCTCCAGGGACCCAGGC 360
 Db 523 AGCTGGCTTGTGGGATGGGCTCCAGGGATGGGCTTCAGGGAAAGGACCCAGGC 582
 Qy 361 ATCTGTGGGATCATTTGGATCGGCCAATGGCTCATGGTTCACAGGAAATGCTGAT 420
 Db 583 ATCTGTGGGATCATTTGGATCGGCCAATGGCTCATGGTTCACAGGAAATGCTGAT 642
 Qy 421 GGAAACGGCCCTTCAGTGCATTCAGTGCCTAAGGGCAAGCCCTCAATGGCCTGCACTAC 540
 Db 643 GGTAACCGCCCTTCAGTCAGRCACATGGCCATGGCTGGGCTCAATGGCAACTCT 702
 Qy 481 CTGGGGCATCAAGCTTCAGTGCATTCAGTGCCTAAGGGCAAGCCCTCAATGGCCTGCACTAC 762
 Db 703 CTGGGGCATCAAGCTTCAGTCAGRCACATGGCCATGGCTGGGCTCAATGGCAACTCT 762
 Qy 541 GCCTGGGGGAGGAGGCCCTCAAGGCCACCTGGACCCACTGGTGGTAAACCT 600
 Db 763 GCCTGGGGGAGGAGGCCCTCAAGGCCACCTGGACCCACTGGTGGTAAACCT 822
 Qy 601 CACAAATGGATATTGGGGGAAGCTATAACAGCGAACCTTGTAGGAACATAAA 660
 Db 823 CACAAATGGATATTGGGGGAAGCTATAACAGCGAACCTTGTAGGAACATAAA 882
 Qy 661 GACGCGTCCACACACTTTGGAAAGGATGGGCCCTGGGCCACACTGACCGAGCT 720
 Db 883 GAGGGATCCACACACTTGGAAAGGATGGGCCCTGGGCCACACTGACCGAGCT 939

RESULT 11
US-08-465-590-8
Sequence 8, Application US/08465590
; Patent No. 5824770
; GENERAL INFORMATION:
; APPLICANT: Georgopoulos, Katalin A.
; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE
; NUMBER OF SEQUENCES: 164
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, Suite 510
; CITY: BOSTON

STATE: MASSACHUSETTS
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII (text)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,590
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/238,212
FILING DATE: 02-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/121,438
FILING DATE: 14-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/946,233
FILING DATE: 14-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Myers, Paul L.
REGISTRATION NUMBER: 35,695
REFERENCE/DOCKET NUMBER: MPG-006C2DV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1004 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1002
US-08-465-590-8

Query 721 AAGAAAGAACTAAGCACAGGAAATGGCAAGAACCTGTGCAAGATAGGATCAGAGAGA 780
Db 940 AAGGAAACTAACCTTACACCAAGGAAAGCTGCAAGATAGGATCAGAGAGG 999
Query 781 TCCTCGGTCGTGACAGACTTCAAGAATGTCGCCAACTTAAGGCTTATGCTCTAG 840
Db 1000 TCCCTGTCCTGACAGGTGCGAAGGAATGTCGCCAAACTTAAGGCTTATGCTCTAG 1059
Query 841 AAATTCTGGGACAGGGCTGTCGACAGCGCTTACCGACAGTGCCACGTGAGAAG 900
Db 1060 AAATTCTGGGACAGGGCTGTCGACAGGTGCGAAGGAATGTCGCCAAACTTAAGGAG 1119
Query 901 GAGAACGAAATGATGAGTGGACCAAGCCATCAAAACGCCTAACTAC 960
Db 1120 GAG---GATATGATGACATCCACAGGATGACCCAGCCATCAAAATGCTCATCACTAC 1176
Db 1237 CCAGTCATCAGGCCGATGTTACGGTCAAGCCTGAGCCCCCTGAGTC 1296
Query 961 CTGGGGCCGAGTCCCGCCGAGTGGGAGACCTGGGCGTGGAG 1020
Db 1177 CTGGGGCTGAGTCAGACTGGCTATGACAAGTGGCTTAGTGGTGGT 1236
Query 1021 CGGTCAATCAGGCCGATGTTACGGTCAAGCCTGAGCCCCGGCTCC 1077
Db 1297 AACCATCAGAGAGGA--CCCGTGGATACTTGCTGCTGTCAGGCCAAGTCT 1353
Db 1297 AACCATCAGAGAGGA--CCCGTGGATACTTGCTGCTGTCAGGCCAAGTCT 1353
Query 1078 AACACAGGGCCAGGACAGGCCGCGTGGAGTACCTGGCTCTCCAAAGGCCAAGTCTG 1137
Db 1354 GTGTCATGGAGGGAGGGCTCCGGAGACGTGGCCATGAGATCACAG 1413
Query 1138 GTGCCCCTGGAGGGAGGGTCCCAGAACAGCTGGCCAGACGGAG 1197
Db 1414 AGCAACGGGAAACGGCAAGCGGGCTTATCTACCTAACACATAACCGCAT 1473
Query 1258 GCCT--AACGCTGTGGCTCAAGGAGGACCGGCCCTAACGACTGTGGCCGCC 1314
Db 1474 GCAGCAATGGGTGGCTCAAGGAGGACCGGCCCTAACGACTGTGGCCGCC 1533
Query 1315 TCCGAACTCGAGGACGGCTCCGGCTAGCACCGGGAGCACATGGGTG 1374
Db 1534 TCAGAACTCGAGGATGCGCTTCAGGATGCGACTGGCTGAGGTG 1593
Query 1375 TACAGTGGAAACTGGGGCTTCTCTGGATCACGATCACATG 1434
Db 1594 TACAGTGGAAACTGGGGCTTCTCTGGATCACGATCACATG 1653
Query 1435 -----GCTGGCCACGGTTCGGTGTCTTGGATCACGATCACATG 1485
Db 1654 GGCTGCCATGGCCATGGCTTCGGATCTTGGATCACGATCACATG 1713
Query 1486 AGCCAGGACGGTACGAGTTCTGTCGCACTAAACCGGGAGCACCGCTTCCACATG 1545
Db 1714 AGCCAGGACGGTACGAGTTCTGTCGCACTAAACCGGGAGCACCGCTTCCACATG 1773
Query 1546 AGCTAA 1551
Db 1774 AGCTAA 1779

Query Match Score 868; DB 1; Length 1004;
Best Local Similarity 88.8%; Pred. No. 6.3e-192;
Matches 1004; Conserv. 0; Mismatches 0; Indels 126; Gaps 1;

QY 421 GGAGAACGCCCTTCAGTCGCAATCAGTGCGGGCCCTCAATCCAGAAGGGCAACCTG 480
Db 1 GGAGAACGCCCTTCAGTCGCAATCAGTGCGGGCCCTCAATCCAGAAGGGCAACCTG 60
QY 481 CTCCGGACATCAAGCTGATTCGGGAGAACGCCCTCAATGCCACTCTGCAACTAC 540
Db 61 CTCCGGACATCAAGCTGATTCGGGAGAACGCCCTCAATGCCACTCTGCAACTAC 120
QY 541 GCCTCCGGAGGGAGGCCCTCACTGGCCACCTGAGGACGCACTCGTTGTTAACCT 600
Db 121 GCGTGGCGGGAGGGAGGCCCTCACTGGCCACCTGAGGACGCACTCC----- 168
QY 601 CACAAATGTTGATATTGGCCGAAGCTATAAACGCAACCTCTTAGAGGAACATAAA 660
Db 169 ----- 168
QY 661 GAGGCCTGCCACACTACTTGGAAAAGCATGGGCTTCCGGCACACTGTTACCCAGTCATT 720
Db 169 ----- 169
QY 721 AAAGAGAAACTAACGACAGTGAATGGAGAAACCTGTGCAAGATGATGAGAGAGA 780
Db 175 AAAGAGAAACTAACGACAGTGAATGGAGAAAGCCGTGCAAGATGAGAGAGA 234
QY 781 TCTCTGCTGGTGGACAGACTAGCTGGCAACACTGTTATGCTGCAAGATGAGAGAGA 840
Db 235 TCTCTGCTGGTGGAAAGACTAGCAAGTAACTGGCCAAACGTTAGGCTCTATGCCCTAG 294
QY 841 AAATTCCTGGGACAAGGGCCCTGGCACACGCCCTACGACACTGCCCCCTACGAGACTGAGAGAG 900

FILING DATE: 02-MAY-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/121,438
 FILING DATE: 14-SEP-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Paul L.
 REGISTRATION NUMBER: 35,695
 REFERENCE/DOCKET NUMBER: MGP-027
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1004 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1004
 US-08-283-300A-7

 Query Match 56.0%; Score 868; DB 4;
 Best Local Similarity 88.8%; Pred. No. 6,3e-192;
 Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;

295 AAATTTCTGGGACAAGGGCCTGTGCGACAGCCCTAACGAGCTTACGACAGTGCACGAG 354
 901 GAGAAGGAATGATGAATGCCAACGTGATGACCAAGCCATACAGCCATCAACTAC 960
 355 GAGAACAAATGATGAGTGGCATACGCTAACGCTAACGCTAACGCTAACACTAC 414
 961 CTGGGGCCGAGTCCTGGCGCTGGCTGGAGACAGCCGGGGTTCCGAGGTGGTC 1020
 415 CTGGGGCCGAGTCCTGGCGCTGGAGACAGCCGGGGTTCCGAGGTGGTC 474
 1021 CGGTATCATCAGGCCAGTGTACAGCTGCAAGGCTGCGTGGAGGGCACCCGGCTCAAC 1080
 475 CGGTATCATCAGGCCGATGTCAGCTGCAAGGCTGCGTGGAGGGCACCCGGCTCAAC 534
 1081 CACTGGCCAGAACGCCCTGAGTACCTGCTGTCAGGGCAAGTTGGTG 114 0
 535 CACTCGGCCAGAACGCCCTGAGTACCTGCTGTCAGGGCAAGTTGGTG 594
 1141 CCCTGGAGCGGGGCTCCCGAGAACAGCTGCCAAGACTCACGGACACCGAGAGC 1200
 595 CACTCGAGGGGGTCCCAGAGAACAGCTGCCAAGACTCACGGACACCGAGAGC 654
 1201 AACAACTGAGGAGCAAGCAGGGTCTATCACCTGACCAACCACATGCCGACGGCG 1260
 655 AACAACTGAGGAGCAAGCAGGGTCTATCACCTGACCAACCACATGCCGACGGCG 714
 1261 CAACGCTGTGCTCAAGGAGAACGACAGCCCTACCCGCTGCGGCCCTTCGGAG 1320
 715 CAACGCTGTGCTCAAGGAGAACGACAGCCCTACCCGCTGCGGCCCTTCGGAG 774
 1321 AACTCGAGGAGCGCTCCGCTGCGCTCACGGAGAACGAGATGAAGSTGTACAAG 1380
 775 AACTCGAGGAGCGCTCCGCTCACGGAGAACGAGATGAAGSTGTACAAG 834
 1381 TGCGAAACACTSGGGGGTGTCTTCGCGATCACGATGACATGCCATGGCTGC 1440
 835 TGCGAAACACTSGGGGGTGTCTTCGCGATCACGATGACATGCCATGGCTGC 894
 1441 CACGGTTCCGTGATCCTTGTGAGTGAACATGCGCTTACACAGCGACCGGTAC 1500
 895 CACGGTTCCGTGATCCTTGTGAGTGAACATGCGCTTACACAGCGACCGGTAC 954
 1501 GAGTTCTGTCGGACATAACCGGAGGGGAGCACCGCTTCCACATGAGCTA 1550
 955 GAGTTCTGTCGGACATAACCGGAGGGGAGCACCGCTTCCACATGAGCTA 1004

RESULT 12

Sequence 7 Application US/08283300A
 Patent No. 6,12278
 GENERAL INFORMATION:
 APPLICANT: Georgopoulos, Katerina A.
 TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHIVE & COOKFIELD
 STREET: 60 STATE STREET, Suite 510
 CITY: BOSTON
 STATE: MASSACHUSETTS
 COUNTRY: USA
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII (text)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/283,300A
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/121,438
 FILING DATE: 14-SEP-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Paul L.
 REGISTRATION NUMBER: 35,695
 REFERENCE/DOCKET NUMBER: MGP-027
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1004 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1004
 US-08-283-300A-7

 Query Match 56.0%; Score 868; DB 4;
 Best Local Similarity 88.8%; Pred. No. 6,3e-192;
 Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;

QY 421 GGAGAACGCCCTTCCAGTGCATAATCAGTGCAGGGCAACCTG 480
 Db 1 GGAGAACGCCCTTCCAGTGCATAATCAGTGCAGGGCAACCTG 60
 QY 481 CTCGGCAGCATCAAGCTGCATTCGGAGAACGCCCTCAATGCCACCTCTGAACCTAC 540
 Db 61 CTCGGCAGCATCAAGCTGCATTCGGAGAACGCCCTCAATGCCACCTCTGAACCTAC 120
 QY 541 GCTGGCCGGAGGGACCCCTCACTGGCACCTGAGGCACTCCGTGGTAACCT 600
 Db 121 GCTGCCCCGGGGAGGACCCCTCACTGGCACCTGAGGCACTCCGTGGTAACCT -- 168
 QY 601 CACAAATGTGGATATTGTCGGCGAACGCTTAAACAGCGAACGCTTAAAGGGAACATAAA 660
 Db 169 ----- 168
 QY 661 GACGGCTGCGACACACTACTGGAAAGCATGGCGACACTGACCGTATT 720
 Db 169 ----- 174
 QY 721 AAGAAAGAACATTAAGCAGTGAATGGCAGAACCTGTGCAAGATAGGATCAGAGA 780
 Db 175 AAGAAAGAACATTAAGCAGTGAATGGCAGAACCTGTGCAAGATAGGATCAGAGA 234
 QY 781 TCCTCTCGTGTGGACAGACTGAGAAGCTAATGTCGCCAACACTAAGGCTCTATGCCCTCAG 840
 Db 235 TCCTCTCGTGTGGACAGACTGAGAAGCTAATGTCGCCAACACTAAGGCTCTATGCCCTCAG 294
 QY 841 AAATTCTGGGACAAAGGGCTGTGGACACCCPACGACAGTCAGTAGAGAG 900
 Db 295 AAATTCTGGGACAAAGGGCTGTGGACACCCPACGACAGTCAGTAGAGAG 354
 QY 901 GAGAACGAAATGATGAACTGCCACGTCAGTGAATGGCACCAAGCCATCAACTAC 960
 Db 355 GAGAACGAAATGATGAACTGCCACGTCAGTGAATGGCACCAAGCCATCAACTAC 414
 QY 961 CTGGGGCCGAGTCCTGCGCCGGCOGTGTGAGGCCAGGGTTCAGGRTGTC 1020
 Db 415 CTGGGGCCGAGTCCTGCGCCGGCOGTGTGAGGCCAGGGTTCAGGRTGTC 474
 1021 CGGTATCATCAGCCGATGTCGGATGAGTAAAGCTACAGGCTCAACGCCCTCAAC 1080

Db 475 CGGGTCAATCACCCGATGTGACAGTCGGCTCGAGGGGACCCGGCTCCAAC 534 ; INFORMATION FOR SEQ ID NO: 8;
 Qy 1081 JACTGGCCAGGAAGAACGGCGGTGGAGTAGCTGCTGGCTGCTGGTCTGCAAGGGCAASITGGTG 1140 ; SEQUENCE CHARACTERISTICS:
 Db 535 CACTCGGCCAGGAAGAACGGCGGTGGAGTAGCTGCTGGCTGCTCCAAGGGCAAGTGGTG 594 ; LENGTH: 1004 base pairs
 Type: nucleic acid
 STRANDDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE: NAME/KEY: Coding Sequence
 LOCATION: 1..1002
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 8;
 US-08-711-417c-8

Qy 1141 CCCTCGAGGGAGGGTCCCGAGAAAGCTGCCAACACTCAGGAAACCAGAGC 1200 ; Query Match Score 56.0%; Score 868; DB 4; Length 1004;
 Db 595 CCCCTGGAGGGCGGGCTCCCGAGCAAGCTGCCAACACTCAGGAAACCAGAGC 654 ; Best Local Similarity 88.8%; Pred. No. 6.3e-192;
 Db 655 ACAAGAGGGAGGGAGGGAGGGTCACTACCTACCGGACCATTCGCCCAGCGCG 1260 ; Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;
 Qy 1201 ACAACAGGGAGGGCAGGGAGGGCTTATCTACCTACCGGACCATTCGCCCAGCGCG 1260 ;
 Db 655 ACAAGAGGGAGGGAGGGAGGGTCACTACCTACCGGACCATTCGCCCAGCGCG 714 ;
 Qy 1261 CAACGCGTGGCGCTAACGGAGGACCCGGCCPACGACCTGCAGCGCCCTCCGAG 1320 ;
 Db 715 CAACGGGTGTCGCTAACGGAGGAGACCCGGCCCTACGACCTGCTCGCCGCTCCGAG 774 ;
 Qy 1321 AACTCCAGGGAGGGTCCGGTGGTCACTACCGGAGAGCATGAAGGTACAAG 1380 ;
 Db 775 AACTCGAGGGAGGGTCCGGTGGTCACTACCGGAGAGCATGAAGGTACAAG 834 ;
 Qy 1381 TGCGAACTCGCCGGTGGTCACTACCGGAGAGCATGAAGGTACAAG 1440 ;
 Db 835 TCGCAACACTCCGGTGTCTTCCTGGATACGTCATGTACACATCCCAATGGCTGC 894 ;
 Qy 1441 CACGGCTTCGGTGGTCACTACCGGAGAGCATGAAGGTACAAG 1500 ;
 Db 895 CACGGCTTCGGTGGTCACTACCGGAGAGCATGAAGGTACAAG 954 ;
 Qy 1501 GAGTCTCGGGCACATAACGGAGGGAGAACCTGGTACAATGTTAGGGTACAATGAGCTA 1550 ;
 Db 955 GAGTCTCGGGCACATAACGGAGGGAGAACCTGGTACAATGAGCTA 1004 ;
 Db 169 ----- ;
 Qy 61 GAGCGCTGCCAACACTACTGGAAAAGCATGGCTTGACCGCACACTGTACCCAGTCATT 720 ;
 Db 169 ----- ;
 Qy 721 AAAGAGAAACTAACGACATGAAATGGCAAGAGCTGGCAASATAGGATCAGAGAGA 780 ;
 Db 175 AAAGAGAAACTAACGACATGAAATGGCAAGAGCTGGCAASATAGGATCAGAGAGA 234 ;
 Qy 781 TCTCTCTGCTGGAGAGACTGAACTAATGTCGCAAACTTAAGGCTCATGCTCTGCT 840 ;
 Db 235 TCTCTCTGCTGGAGAGACTGAACTAATGTCGCAAACTTAAGGCTCATGCTCTGCT 294 ;
 Qy 841 AAATTCTTGGGACAAGGGCTTGTGGACACGACCTGTCACGAGCTTGTGGCAAG 900 ;
 Db 295 AAATTCTTGGGACAAGGGCTTGTGGCAAGCTGACAGCTTGTGGCAAG 354 ;
 GENERAL INFORMATION:
 APPLICANT: Georgopoulos, Katia A.
 TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE
 NUMBER OF SEQUENCES: 202
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street.
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Discrete
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows 95
 SOFTWARE: FASTSEQ for Windows Version 2.0b
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/711,417C
 FILING DATE: 05-SEP-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/238,212
 FILING DATE: 02-MAY-1994
 APPLICATION NUMBER: 08/121,438
 FILING DATE: 14-SEP-1993
 APPLICATION NUMBER: 07/946,233
 FILING DATE: 14-SEP-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Myers, Louis P.
 REGISTRATION NUMBER: 35,965
 REFERENCE/DOCKET NUMBER: 10287/007001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEX: 200154

QY 1261 CAACGGCTGTCGCTCAAGGAGCACCGGCCCTACGACCTGTGCCGCCCTCCGAG 1320
 Db 715 CAACGGCTGTCGCTCAAGGAGCACCGGCCCTACGACCTGTGCCGCCCTCCGAG 774
 QY 1321 AACTCGCAGAACCGCTCGCTGGTCAAGGAGCACCGGCCCTACGACCTGTACAAG 1380
 Db 775 AACTCGCAGAACCGCTCGCTGGTCAAGGAGCACCGGCCCTACGACCTGTACAAG 834
 QY 1381 TCGAACACTCGGGTGCCTCCCTGGATCACGTACACCATTCCACATGGGTGTC 1440
 Db 835 TCGAACACTCGGGGNGCTCTCCCTGGATCACGTACACCATTCCACATGGGTGTC 894
 QY 1441 CACGGCTTCGGATCCTTTAGTCAGTCAAATGTCGGCTAACACCGAACCGGTAC 1500
 Db 895 CACGGCTTCGGATCCTTTAGTCAGTCAAATGTCGGCTAACACCGAACCGGTAC 954
 QY 1501 GAGTTCTGGTCCACAACTGGAGGGGACCGCTTCCACATGAGCTA 1550
 Db 955 GAGTTCTGGTCCACAACTGGAGGGGACCGCTTCCACATGAGCTA 1004

RESULT 14

PCT-US95-09345-7

; sequence 7, Application PC/TUS9509345

; GENERAL INFORMATION:

; APPLICANT: Georgopoulos, Katia A.

; TITLE OF INVENTION: IKAROS TRANSGENIC CELLS AND ANIMALS

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSSEE: LAHIVE & COOKFIELD
STREET: 60 STATE STREET, Suite 510
CITY: BOSTON
STATE: MASSACHUSETTS

; COUNTRY: USA

; ZIP: 02109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: ASCII (text)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/09345

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/283,300

; FILING DATE: 29-JULY-94

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/238,212

; FILING DATE: 02-MAY-94

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/121,438

; FILING DATE: 14-SEP-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/946,233

; FILING DATE: 14-SEP-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Myers, Paul L.

; REGISTRATION NUMBER: 35,695

; REFERENCE/DOCKET NUMBER: MGP-027PC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617)227-7400

; TELEFAX: (617)227-5941

; INFORMATION FOR SEQ ID NO: 7 :

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1004 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE: CDS

; LOCATION: 1..1004

PCT-US95-09345-7

Query Match 56.0%; Score 868; DB 5; Length 1004;
 Best Local Similarity 88.8%; Pred. No. 6, 3e-192;
 Matches 1004; Conservative 0; Mismatches 0; Indels 126; Gaps 1;

Qy 421 GGAAACGGCCCTTCAGCAATCAGTGCACTGGGGCCCTCATCCCCAGAAGGGCAACCTG 480
 Db 1 GGAAACGGCCCTTCAGCAATCAGTGCACTGGGGCCCTCATCCCCAGAAGGGCAACCTG 60
 Qy 481 CTCGGCCATCAAGTCGTCATTCGGGGCATCCGGGAGAACCCCTCAATGCCACCTCTGCACATAC 540
 Db 61 CTCGGCCATCAAGTCGTCATTCGGGGAGAACCCCTCAATGCCACCTCTGCACATAC 120
 Qy 541 GCCTGCCCGAGGGGAGGGGACTCGGTGGTAAACCT 600
 Db 121 GCCTGCCCGAGGGGAGGGGACTCGGTGGTAAACCT 168
 Qy 601 CACAAATGGATATTGGGGATAAACAGGGAAACCTTTAGGGAAACATAAA 660
 Db 169 ----- 168
 Qy 661 GAGGGCTGCCACAACTACTTGGAAAGCATGGGCACACTGTACCCAGTATT 720
 Db 169 -----
 ; -GTCAATT 174
 Qy 721 AAGAAAGAACTAAGCACAGTAATGGAGAACCTGTGGATAGGATAGAGGA 780
 Db 175 AAAGAAAGAACTAAGCACAGTAATGGAGAACCTGTGGAGTAGGATAGGATAGAGGA 234
 Qy 781 TCTCTCGTGCCTGGACAGACTGCAACTAATGTCGCCAAACCTCATGCTCATGCCTCAG 840
 Db 235 TCTCTCGTGCCTGGACAGACTGCAACTAATGTCGCCAAACCTCATGCTCATGCCTCAG 294
 Qy 841 AAATTCTTGGGACAAAGGGCTGTCGGACAGCCCTTAAGCAGACTGCCACCTGAGAG 900
 Db 295 AAATTCTTGGGACAAAGGGCTGTCGGACAGCCCTTAAGCAGACTGCCACCTGAGAG 354
 Qy 901 GAGAACAAATGATGAGTGGACCTGGTACCTGACAAACGCTCAACAGCTCAACTAC 960
 Db 355 GAGAACAAATGATGAGTGGACCTGGACCTGGTACCTGACAAACGCTCAACAGCTCAACTAC 414
 Qy 961 CTGGGGCGAGCTCCCTGGCCGCCCTGGTGCAGACGCCGGGGTTCGGAGCTGGTGC 1020
 Db 415 CTGGGGCGAGCTCCCTGGCCGCCCTGGTGCAGACGCCGGGGTTCGGAGCTGGTGC 474
 Qy 1021 CGGTATCATACGCCGATGTCAGCAGGGCTCAGCGACGCCGGCTCCAC 1080
 Db 475 CGGTATCATACGCCGATGTCAGCAGGGCTCAGCGACGCCGGCTCCAC 534
 Qy 1081 CACTCGGCCAGAGCGCTGGTGGTACCTGCTGCTGCTCAAGGCAAGTTGGT 1140
 Db 535 CACTGGCCAGAGCGCTGGTGGTACCTGCTGCTGCTCAAGGCAAGTTGGT 594
 Qy 1141 CCCTCGGAGGCGAGCTGCCGAGCTGCCGAGCTGCCGAGCTGCCGAG 1200
 Db 595 CCCTCGGAGGCGAGCTGCCGAGCTGCCGAGCTGCCGAGCTGCCGAG 654
 Qy 1201 AACAAAGGAGGAGCACGCCAGGGCACCCGCCATGCCGCCGGCG 1260
 Db 655 AACAAAGGAGGAGCACGCCAGGGCTCATGCCGCCGGCG 714
 Qy 1261 CAAAGGGTGTGCTCAAGGAGGAGGCCCTGAGCTGCCGCCGGCGCG 1320
 Db 715 CAAACGGCTGCTGCCGTCAGGAGGAGCACGCCAGGGCTCATGCCGCCGGCG 774
 Qy 1321 AACCTGGAGGACGCGCTCCGGTGGTCAACGCCACATGCCGCCGGCG 1380
 Db 775 AACCTGGAGGACGCGCTCCGGTGGTCAACGCCACATGCCGCCGGCG 834
 Qy 1381 TGGCAACACCTGGGGCTCTCTGGATCACCATGGCTGC 1440

Db	835	TGCGAACACTGGGGCTCTTCTGGATCACGTCACTGGCTGC 894
Qy	1441	CACGGCTCCGTATCCTTGATGAGTCACATGGGGTACACAGGACCGGTAC 1500
Qy	1501	GAGTCTCGTGACATAACCGAGGGGACCGGTCCACATGAGCTA 1550
Db	955	GAGTCTCGTGACATAACCGAGGGGACCGGTCCACATGAGCTA 1004
RESULT 15		
US-08-465-590-2 Application US/08465590		
Sequence 2 Application US/08465590		
Patent No. 5824770		
GENERAL INFORMATION:		
APPLICANT: Georgopoulos, Kattia A.		
TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE		
NUMBER OF SEQUENCES: 164.		
CORRESPONDENCE ADDRESS:		
ADDRESSEE: LAHIVE & COCKFIELD		
STREET: 60 STATE STREET, Suite 510		
CITY: BOSTON		
STATE: MASSACHUSETTS		
COUNTRY: USA		
ZIP: 02109		
COMPUTER READABLE FORM:		
MEDIUM TYPE: Floppy disk		
COMPUTER: IBM PC compatible		
OPERATING SYSTEM: PC-DOS/MS-DOS		
SOFTWARE: ASCII (text)		
CURRENT APPLICATION DATA:		
APPLICATION NUMBER: US/08/465,590		
FILING DATE: 05-JUN-1995		
PRIOR APPLICATION DATA:		
APPLICATION NUMBER: US 08/238,212		
FILING DATE: 02-MAY-1994		
PRIOR APPLICATION DATA:		
APPLICATION NUMBER: US 08/121,438		
FILING DATE: 14-SEP-1993		
PRIOR APPLICATION DATA:		
APPLICATION NUMBER: US 07/946,233		
FILING DATE: 14-SEP-1992		
ATTORNEY/AGENT INFORMATION:		
NAME: Myers, Paul L.		
REGISTRATION NUMBER: 35,695		
REFERENCE/DOCKET NUMBER: MPG-006C2DV		
TELECOMMUNICATION INFORMATION:		
TELEPHONE: (617)227-7400		
TELEFAX: (617)227-5941		
INFORMATION FOR SEQ ID NO: 2:		
SEQUENCE CHARACTERISTICS:		
LENGTH: 1788 base pairs		
TYPE: nucleic acid		
STRANDEDNESS: single		
TOPOLOGY: linear		
MOLECULE TYPE: cDNA		
FEATURE:		
NAME/KEY: CDS		
LOCATION: 223..1515		
US-08-465-590-2		
Query Match 52.4%; Score 813.2; DB 1; Length 1788;		
Best Local Similarity 85.5%; Pred. No. 3..e-179; Mismatches 143; Indels 24; Gaps		
Qy	417	CACTGGAGAACGCCCTTCAGTGAATCGTGGGGCTCATCCAGAAGGGCAA 476
Db	378	CACTGGTAAACGCCCTTCAGTGAACCAGTCTGGGCTCTTACCCAGAAAGGGCAA 437
Qy	477	CTCTGGACATCAAGCTGATTCGGGAGAACCCITCAATCCACCTCTGCAA 536

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Page 17

Search completed: August 28, 2002, 09:03:45
Job time: 6945 sec

